



# DEPARTMENT OF HEMATOLOGIC & LYMPHATIC PATHOLOGY

Susan L. Abbondanzo, M.D.  
Chairperson  
Date of Appointment - 1 May 1994

## MISSION

To provide excellence in consultation, education, and research in the pathology of the hematopoietic system. Cases are submitted by the Department of Defense, the Department of Veterans Affairs, and civilian hospitals worldwide.

## STAFF

### *Medical*

- Susan L. Abbondanzo, M.D., Chairperson
- Nadine S. Aguilera, Maj, USAFR, MC, Assistant Chairperson
- Meenakshi A. Nandedkar, LCDR, MC, USNR, Staff Pathologist
- JoAnn W. Andriko, MAJ, MC, USAR, Staff Pathologist
- (A) Dennis E. Summers, LCDR, MC, USNR, Staff Pathologist
- (A) Linda M. Griffith, M.D., Ph.D., Staff Pathologist
- (A) Ronaldo D. Gnass, M.D., Callender-Binford Fellow

### *Scientific*

- Wei-sing Chu, M.D., Supervisor, Immunology Laboratory
- Min Qi Wei, Technologist, Immunology Laboratory
- Gail D. Hamilton, SSGT, USAF, Technologist, Immunology Laboratory

### *Administrative*

- Vera A. Pettus, Secretary
- (A) Michelle L. Kelly, Secretary (part-time)

## CONSULTATION

Cases

<i>Description</i>	<i>Received</i>
Military .....	449
Federal (VA/PHS) .....	440
Civilian .....	841
Interdepartmental .....	1,622

Dr. Susan L. Abbondanzo continues as chairperson of the Department of Hematologic and Lymphatic Pathology. In this capacity, she oversees an extensive consultation service, which includes lymph node, bone marrow, and spleen cases from military, Veteran Affairs, and civilian hospitals worldwide. A total of 1,730 cases were accessioned to the department. In addition, an extensive intramural consultation service rendered 1,622 consultation opinions under the supervision of Dr. Abbondanzo. Approximately 90% of the cases accessioned to the department required additional workup, including recuts, special histochemical stains, and immunohistochemical marker studies. The department's immunohistochemistry laboratory provided immunohistochemical support for

all intradepartmental cases and many interdepartmental cases as well. The immunohistochemical laboratory supported numerous research projects and introduced six new antibodies (CD1a, CD5, CD23, CD44, CD79a, and TdT) for use on paraffin sections. In 1995, the immunohistochemical laboratory processed a total of 28,030 slides (2,966 cases). The Molecular Pathology Division of the Department of Cellular Pathology collaborated in the development and investigation of new modalities for the diagnosis of hematopoietic neoplasms.

## RESEARCH

Intradepartmental and interdepartmental research, utilizing our immunohistochemistry laboratory, continues to be a major priority. During the past year, several projects were undertaken involving numerous hematopoietic lesions. Collaboration with the Molecular Pathology Division of the Department of Cellular Pathology was also conducted (i.e. PCR for t(2;5) in anaplastic large cell lymphoma).

### *Research Interests*

1. Histopathologic changes in infectious lymphadenitis.
2. HIV-related changes in hematopoietic tissues.
3. The differentiation of mantle cell lymphoma from small lymphocytic lymphoma using immunohistochemical stains.
4. The clinical behavior of Waldenstrom's macroglobulinemia as related to morphologic subtypes.
5. Hodgkin's disease in the pediatric age group.
6. Dendritic reticulum cell neoplasms of the lymph node.
7. Splenic hamartomas.
8. The blastic variant of mantle cell lymphoma of the mucosa of the head and neck.
9. Primary anaplastic large cell lymphoma of the lung
10. T-cell lymphoma in the breast.
11. A clinicopathologic study of lymphoblastic lymphoma.
12. "Pseudolymphoma" of the stomach.
13. Malignant lymphomas with signet-ring cell features.

Eleven abstracts involving one or more members of our department were submitted for the 1996 United States of Canadian Academy of Pathology meeting.

## EDUCATION

The educational contributions of the department include participation in a wide array of AFIP courses such as the department's annual Hematopathology course, which was held May 2-5, 1995. This course included a number of prominent experts in the field of hematopathology and utilized the expertise in the department by presenting timely topics in hematopathology. The department also participated in the annual Problems in Anatomic Pathology course, organized by the AFIP, by presenting lectures on benign and malignant hematopoietic diseases. Presentations by the staff at national meetings and regional institutions have been encouraged.

Drs. Abbondanzo and Aguilera updated and expanded the Kodachrome study set in hematopathology (35mm transparencies), which includes 41 different cases of benign and malignant hematopoietic lesions.

## GOALS

The consultative goals of the department are to provide accurate and timely diagnoses, which will ensure optimal patient care. By using up-to-date diagnostic methods, and pertinent adjunct techniques, we strive to provide excellence in consultation. Timely turnaround for surgical consultations continues to be a priority in our department. The department will continue to introduce new antibodies to our current immunohistochemical panels and to assist in the expansion of existing molecular diagnostic techniques for the diagnosis of hematopoietic lesions.

The department's educational goals are to maintain the excellence of the department's annual courses as well as other AFIP courses and to encourage educational endeavors within and outside of the AFIP.

The department will encourage the participation of all staff in various research projects, utilizing the material collected in the AFIP registry. Collaboration with other AFIP departments, as well as with outside institutions, will continue to expand our knowledge in the field of hematopathology.

### *Professional Appointments and Additional Professional Activities*

Dr. Abbondanzo:

1991-present ..... Adjunct Clinical Assistant Professor, Georgetown  
University Medical Center, Department of Pathology  
May 1995 ..... Course Director, 17th Annual Hematopathology  
Course, Armed Forces Institute of Pathology  
1995-1996 ..... President, Washington, D.C., Society of Pathologists  
Vice President, Georgetown Clinical Society  
May 1994-present ..... Center for Advanced Pathology, Molecular Pathology Committee,  
Armed Forces Institute of Pathology  
May 1994-present ..... Center for Advanced Pathology, Consultation Committee, Armed  
Forces Institute of Pathology  
1994-July 1995 ..... Vice-President, Washington, D.C., Society of Pathologists  
1992-1995 ..... Executive Council, Georgetown Clinical Society

Dr. Aguilera:

1995-present ..... Instructor, Uniformed Services University of Health Sciences,  
2nd-year medical student pathology laboratory

Dr. Summers:

1989-present ..... Instructor, Uniformed Services University of Health Sciences,  
2nd-year medical student pathology laboratory

Dr. Nandedkar:

1995-present ..... Instructor, Uniformed Services University of Health Sciences,  
2nd-year medical student pathology laboratory

REVIEWER (Dr. Abbondanzo):

1995-present ..... Cancer  
1994-present ..... Archives of Pathology and Laboratory Medicine  
1990-present ..... MAYO Clinic Proceedings

## HONORS AND AWARDS

Dr. Abbondanzo:

Department of Army Special Act of Service Award

[illegible]

***Dr. Abbondanzo:***

- Dr. Abbondanzo:***

***Dr. Aguilera:***

- Dr. Aguilera:***

*Dr. Summers:*

- Dr. Summers:*

**Dr. Nandedkar:**

- Dr. Nandedkar:**

***Dr. Andriko:***

- Dr. Andriko:***

## PUBLICATIONS

## Journal Articles

- ## Journal Articles

2. Devaney K, Abbondanzo SL, Shekitka KM, Wolov RB, Sweet DE. MIC2 Detection in tumors of bone and adjacent soft tissues. *Clin Orthop*. 1995;310:176-187.
3. Devaney K, Abbondanzo SL, Shekitka KM, Wolov RB, Sweet DE. p53 protein and proliferating cell nuclear antigen (PCNA) expression in small round cell tumors of bone and adjacent soft tissue: a study of 60 cases. *Int J Surg Pathol*. 1995;2:259-268.
4. Abbondanzo SL, Wenig BM. Non-Hodgkin's lymphoma of the sinonasal tract: a clinicopathologic and immunophenotypic study of 120 cases. *Cancer*. 1995;75:1281-1291.
5. Seidman JD, Abbondanzo SL, Bratthauer GL. Lipid cell (steroid cell) tumor of the ovary: immunophenotype with analysis of potential pitfall due to endogenous biotin-like activity. *Int J Gynecol Pathol*. 1995;14:331-338.
6. Guinee DG Jr, Travis WD, Trivers GE, De Benedetti VMG, Cawley H, Welsh JA, Bennett WP, Jett J, Colby TV, Tazelaar H, Abbondanzo SL, Pairolero P, Trastek V, Caporaso NE, Liotta LA, Harris CC. Gender comparisons in human lung cancer: analysis of p53 mutations, anti-p53 serum antibodies and C-erbB-2 expression. *Carcinogenesis*. 1995;16:993-1002.
7. Aguilera N, Kapadia S, Nalesnik M, Swerdlow S. Extramedullary plasmacytoma of the head and neck: use of paraffin sections to assess clonality with in-situ hybridization, growth fractions and the presence of Epstein-Barr virus. *Mod Pathol*. 1995;8:503-508.

In addition, one article is in press.

#### **Abstracts**

- Seidman JD, Abbondanzo SL. Immunohistochemistry of lipid cell (steroid cell) tumor of the ovary. *Mod Pathol*. 1995;8:96A.
- Devaney K, Abbondanzo SL, Wenig BM. Olfactory neuroblastoma and related sinonasal round cell lesions--MIC-2, Bcl-2 and p53 immunohistochemistry. *Mod Pathol*. 1995;8:100A.
- Fleming MB, Guinee DG, Chu WS, Bennett WP, Colby TC, Tazelaar H, Abbondanzo SL, Caporaso NE, Jett J, Pairolero P, Trastek V, Liotta LA, Harris CC. Correlates of bcl-2 immunohistochemical staining in a surgical series of lung cancer patients. *Mod Pathol*. 1995;8:148A.
- Moran CA, Suster, S, Fishback N, Abbondanzo SL, Koss MN. Primary leiomyosarcomas of the lung: a clinicopathologic and immunohistochemical study of 24 cases. *Mod Pathol*. 1995;8:150A.